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IS 10813 (1984): Soap jelly for laundry purposes [CHD 25: Soaps and other Surface Active Agents]

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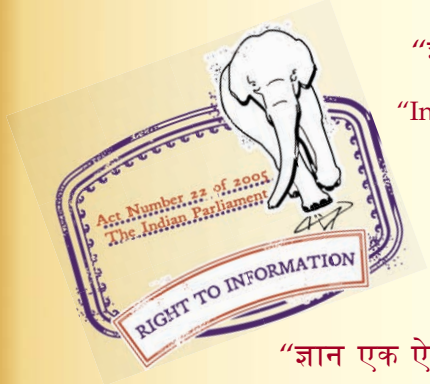

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Bhartṛhari—Nītiśatakam
"Knowledge is such a treasure which cannot be stolen"

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IS : 10813 - 1984
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Indian Standard

SPECIFICATION FOR SOAP JELLY FOR LAUNDRY PURPOSES

UDC 661 : 187·86 : 648·18

INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

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May 1984

Indian Standard

SPECIFICATION FOR SOAP JELLY FOR LAUNDRY PURPOSES

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Indian Standard

SPECIFICATION FOR SOAP JELLY FOR LAUNDRY PURPOSES

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 29 February 1984, after the draft finalized by the Soaps and Other Surface Active Agents Sectional Committee had been approved by the Chemical Division Council.

0.2 Indian standard specifications for toilet soap, laundry soap, liquid toilet soap and soft soap are in existence for quite some time. The soap technology has advanced so much that today soaps can be produced and formulated from any type of vegetable oil, and fat, conventional or non-conventional, available to the industry.

0.3 Soap jelly is distinguished from ordinary laundry soap by its soap, jelly like texture and is primarily used for laundry purposes.

0.4 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value observed or calculated, expressing the result of a test or analysis shall be rounded off in accordance with IS:2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

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1. SCOPE

1.1 This standard prescribes requirements and methods of sampling and test for soap jelly for laundry purposes.

2. TERMINOLOGY

2.1 For the purpose of this standard, the definitions given in **2** of IS:286-1978† shall apply.

*Rules for rounding off numerical values (*revised*).

†Methods of sampling and test for soaps (*second revision*).

3. REQUIREMENTS

3.1 Description — Soap jelly shall consist of an aqueous mass of potassium or sodium soap made from fatty oils, conventional or non-conventional fatty acids and their mixtures. It shall be free from any gritty feel.

3.2 The material shall quickly dissolve and form a satisfactory lather in water.

3.3 The material shall remain a homogenous mass when kept at 32°C and shall show no sign of separation. It shall not show any sign of deterioration on storage in original pack under normal conditions.

3.4 The material shall have no disagreeable odour.

3.5 No liquid shall separate when the material is maintained at a temperature of 0°C for a period of 24 hours.

3.6 Soap jelly shall also comply with the requirements specified in Table 1.

TABLE 1 REQUIREMENTS FOR SOAP JELLY

Sl No.	Characteristic	Requirement	Method of Test, (Ref to Cl No. in IS:286-1978*)
(1)	(2)	(3)	(4)
i)	Total fatty matter, percent by mass, *Min*	15·0	15
ii)	Matter insoluble in water, percent by mass, *Max*	1·5	5
iii)	Free caustic alkali, as sodium hydroxide (NaOH), percent by mass, *Max*	0·1	6·3

*Methods of sampling and test for soaps (*second revision*).

4. PACKING AND MARKING

4.1 The material shall be packed in suitable polyethylene lined cardboard boxes or tin containers or as agreed to between the purchaser and the supplier.

4.2 Marking — The packages shall be securely closed and marked with the following:

a) Name and address of manufacturer;

b) Brand name of the material and or recognized trade-mark, if any;

c) Year and month of manufacture;

d) Net mass when packed; and

e) Batch No. or lot No. in code or otherwise.

4.2.1 The packages may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act and the Rules and Regulations made thereunder. The ISI mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

5. SAMPLING

5.1 For this purpose general precautions, scale of sampling and preparation of test samples shall be as prescribed in **3.1**, **3.2** and **3.3**, respectively of IS : 286-1978*.

5.2 Number of Tests

5.2.1 Tests for the determination of total fatty matter and free caustic alkali shall be conducted on each of the individual samples separately.

5.2.2 Test for the determination of matter insoluble in water shall be conducted on the composite sample.

5.3 Criteria for Conformity

5.3.1 *For Individual Samples* — For each of the characteristics which have been determined on the individual samples (*see* **5.2.1**) the mean ($\bar{X}$) and the range (R) of the test results shall be calculated as follows:

$$\text{Mean } (\bar{X}) = \frac{\text{The sum of test results}}{\text{Number of test results}}$$

$$\text{Range } (R) = \text{The difference between the maximum and the minimum of test results}$$

The lot shall be deemed as conforming to the requirements if the expression ($\bar{X} - 0{\cdot}4\ R$) is greater than or equal to maximum value given in Table 1 and ($\bar{X} + 0{\cdot}4\ R$) is less than or equal to maximum value given in Table 1.

5.3.2 *For Composite Sample* — For declaring the conformity of the lot to the requirements of other characteristics determined on the composite sample, the test results for each of the characteristics shall satisfy the relevant requirements.

*Methods of sampling and test for soaps (*second revision*).

6. TEST METHODS

6.1 Tests shall be conducted as prescribed in IS: 286-1978*. Reference to the relevant clauses of that standard is given in col. 4 of Table 1.

6.2 Quality of Reagents — Unless specified otherwise, pure chemicals and distilled water (*see* IS: 1070-1977†, shall be employed in tests.

NOTE — 'Pure chemicals' shall mean chemicals that do not contain impurities which affect the results of analysis.

*Methods of sampling and test for soaps (*second revision*).

†Specification for water for general laboratory use (*second revision*).

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INTERNATIONAL SYSTEM OF UNITS (SI UNITS)

Base Units

Quantity	*Unit*	*Symbol*
Length	metre	m
Mass	kilogram	kg
Time	second	s
Electric current	ampere	A
Thermodynamic temperature	kelvin	K
Luminous intensity	candela	cd
Amount of substance	mole	mol

Supplementary Units

Quantity	*Unit*	*Symbol*
Plane angle	radian	rad
Solid angle	steradian	sr

Derived Units

Quantity	*Unit*	*Symbol*	*Definition*
Force	newton	N	1 N = 1 kg. m/s^2
Energy	joule	J	1 J = 1 N.m
Power	watt	W	1 W = 1 J/s
Flux	weber	Wb	1 Wb = 1 V.s
Flux density	tesla	T	1 T = 1 Wb/m^2
Frequency	hertz	Hz	1 Hz = 1 c/s (s^{-1})
Electric conductance	siemens	S	1 S = 1 A/V
Electromotive force	volt	V	1 V = 1 W/A
Pressure, stress	pascal	Pa	1 Pa = 1 N/m^2